POLUNIN, N.
The flora of Southampton Island, Hudson Bay.

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THE FLORA OF SOUTHAMPTON ISLAND, HUDSON BAY.

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Rather more than 200 miles from north to south and a similar istance from east to west, Southampton Island lies around t. 64° N. and long. 84° W. in the mouth of Hudson Bay. It has n area of some 20,000 square miles, of which about two-thirds re occupied by limestone and one-third by gneiss (*cf.* Manning, 936, map on p. 237). The country is almost everywhere low nd rolling, having been heavily glaciated, but, except for numerous kes and occasional perennial patches of snow, the whole area free for colonisation by plants (which indeed cover about alf the surface), there being no ice-cap.

The first botanical exploration of this very considerable nd-mass was carried out by Captain W. E. Parry and certain f his officers (Edwards, Fisher, Hooper, and Lyon) in 1821. his was a mere amateur reconnaissance made during brief ndings on the north coast; forty-eight species of vascular lants were collected, of which twenty-eight were recorded by ooker (1825) from the gatherings of Parry and Edwards. fter this, except for a single specimen taken by Dr. L. E. orden during the cruise of the 'Neptune,' it appears that no otanical work was attempted on the island for a whole century— ndeed, until 1922 when Therkel Mathiassen and Jacob Olsen f the Danish Fifth Thule Expedition visited it for archæological nd other purposes and collected a few plants (Grøntved, 1936).

In 1928 the island was visited for the first time by a scienti- cally trained biologist, the late Dr. M. O. Malte (then Chief otanist of the National Museum of Canada), who wrote me that e had obtained about eighty species in the single day he had shore near the Hudson's Bay Company's trading post in South ay. According to my computation, there are in this collection f Dr. Malte's no less than thirty-seven species and subsidiary rms not previously known from the island. Two summers ter the American ornithologist G. M. Sutton, after wintering n the island, made a further very useful collection of plants hich (with another collection made at Chesterfield Inlet on e adjacent mainland) has recently been described in detail by aup (1936); Sutton's collections added a further twenty-six the species and forms already gathered on the island, and, f course, a much greater number to those hitherto recorded the literature (*cf.* Raup, 1936, p. 17).

In 1933, Southampton and some closely adjacent smaller lands which seem properly to belong to it were visited by the

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Norcross-Bartlett Expedition, a few plants (including some noteworthy additions) being collected by J. B. Angel, while the following year I had the good fortune myself, when accompanying the Canadian Eastern Arctic Expedition, to spend a day on the island (in the vicinity of the Hudson's Bay Company's post in South Bay) making a primary ecological survey of the chief plant communities, and also collections and notes which resulted in yet further additions to the known flora. Meeting there my old friend Thomas Manning of Cambridge, I asked him to collect more plants for me; this he very kindly did. Finally, revisiting the island for a few hours in 1936 as a member of the Canadian Government Party on the Eastern Arctic Patrol of that year, I was pleased to find that Messrs. Pat Baird and G. W. Roley, who had come out from England with Manning's new expedition, had also been collecting plants industriously.

Thus no less than fifteen people (see table on p. 95) have collected plants on Southampton Island. I have seen most if not all of their material, in my own or one or another of the main herbaria of Europe and North America, and find represented in their collections no less than 151 species and twenty subsidiary forms of vascular plants. This is an increase of more than 60 per cent. to the flora recorded by Raup (1936), and it seems desirable to publish in full the following list of all these species and forms that have been collected on the island. Even now the flora must be far from completely known; the ease with which additions are still being made and the lack to this day of any record of such common and widespread arctic plants as *Catabrosa algida*, *Koenigia islandica*, and many others suggest that the species alone may well be brought up to 200 with further exploration.

In conformity with the climate the flora is, of course, arctic in type, including most of the high-arctic plants occurring in the Canadian Arctic Archipelago, almost all of which are of circumpolar distribution. A few relatively southern but often circumboreal species are also represented. Of the plants whose range is restricted to North America the majority are "Western" in their affinity, as is indeed to be expected from the geographical position of the island and the fact that Sir Thomas Roe's Welcome, the strait separating it from the mainland of the North-West Territories, often freezes over in winter and so allows an easy path for migration from that quarter.

The order and nomenclature followed in the list given below are essentially those of Gray's 'Manual of Botany,' ed. 7 (1908),—with such modifications as seem desirable in the light of recent researches by Professor M. L. Fernald and others or as are necessitated to bring the whole into line with my forthcoming 'Botany of the Canadian Eastern Arctic.—Part I.' Since fuller citations of localities etc. will be found in this work, which will

shortly be going to press, I have not thought it necessary to mention here the localities *within* Southampton Island—except for three species which have not been found on the main island but instead only on one of the small adjacent islands which for phytogeographical purposes are best treated with it.

Abbreviations of collectors' names :—

A. Angel in 1933 (specimens in the U.S. National Herbarium).
Ba. Baird in 1936 (British Museum).
Bo. Borden in 1904 (National Herbarium of Canada).
E. Edwards in 1821 (British Museum).
F. Fisher in 1821 (British Museum).
H. Hooper in 1821 (Linnean Society of London).
L. Lyon in 1821 (recorded in his book).
Mal. Malte in 1928 (Nat. Herb. Canada).
Man. Manning in 1934 (Brit. Mus., etc.).
Mat. Mathiassen in 1922 (Copenhagen).
O. Olsen in 1922 (Copenhagen).
Pa. Parry in 1821 (Brit. Mus., Kew, Copenhagen, etc.).
Po. 34. Polunin in 1934 (Nat. Herb. Canada, Harvard, Brit. Mus., etc.).
Po. 36. Polunin in 1936 (Nat. Herb. Canada, Harvard, Brit. Mus., etc.).
R. Roley in 1936 (Brit. Mus.).
S. Sutton in 1930 (Harvard, Gray Herb.).

An asterisk before the name of a plant indicates that it has not been recorded earlier for Southampton Island.

POLYPODIACEAE.

Cystopteris fragilis (L.) Bernh.—O., Ba.
Dryopteris fragrans (L.) Schott. (*Thelypteris fragrans* (L.) Nieuwl.).—S., A., Po. 36.

EQUISETACEAE.

Equisetum arvense L.—S., Po. 34 & 36, Man., Ba.
E. variegatum Schleich.—Mal., S., Po. 34 & 36, Man., Ba.

LYCOPODIACEAE.

Lycopodium Selago L.—Mal., S., Man., Po. 36.

GRAMINEAE.

Hierochloe alpina (Sw.) Roem. & Schult.—H. (note only), Mat., S., Po. 34 & 36, Man.
H. pauciflora R. Br.—A., Po. 36, Ba.
Alopecurus alpinus Smith—Pa., Mat., Mal., S., Po. 34 & 36, Man., Ba.
Arctagrostis latifolia (R. Br.) Griseb.—H. (note only), Pa., Mat., Mal., S., Po. 34 & 36 ; *f. *aristata* Holmb.—Mal., S.

Calamagrostis neglecta (Ehrh.) Gaertn. var. *borealis* (Laestad.) Kearney (incl. *C. confinis* (Willd.) Nutt.).—Mat.
**Deschampsia brevifolia* R. Br.—Man., Po. 36.
Trisetum spicatum (L.) Richter—S.; *var. *Maidenii* (Gand.) Fernald—Po. 34, Man.
Pleuropogon Sabinei R. Br.—Pa., S?.
Poa glauca M. Vahl—Pa., Mal., Po. 34 & 36, Man.; *var. *tenuior* Simmons—Po. 34.
P. arctica R. Br. (*P. rigens* of authors)—E., H., Pa., Mat., Mal., S., Po. 34 & 36, Man., Ba.
**P. pratensis* L. (s. l.)—Man.
P. alpina L.—Po. 36.
Colpodium fulvum (Trin.) Griseb. (*Arctophila fulva* (Trin.) Rupr.)—Po. 36; *var. effusum (Lange) n. comb. (*Arctophila effusa* Lange, Conspectus Floræ Groenlandicæ, p. 167, 1880)—Mal., S., Po. 34 & 36, Man., Ba.
Dupontia Fisheri R. Br. †—Mal., S., Po. 34 & 36.
**Puccinellia phryganodes* (Trin.) Scribn. & Merrill—Mal., Po. 34 & 36.
**P. paupercula* (Holm) Fernald & Weatherby—Mal., Po. 34.
**P. Vahliana* (Liebm.) Scribn. & Merrill—Po. 36.
Festuca brachyphylla Schultes—H. (note only), Mat., Mal., S., Po. 34 & 36, Ba.
Elymus arenarius L. var. *villosus* E. Meyer—Pa. (not seen, but cited by Hooker 1825, p. 409), Mat., Mal., S., Po. 34, Man.

CYPERACEAE.

Eriophorum Scheuchzeri Hoppe—H. (note only), Pa., Mat., S., Ba.
E. callitrix Cham.—S., Ba., Po. 36.
E. angustifolium Roth ‡—H. (note only), Pa., Mat., Mal., S., Po. 34 & 36, Ba.
**Kobresia Bellardii* (All.) Degland—Po. 34.
**K. simpliciuscula* (Wahlenb.) Mackenzie—Mal., Po. 34 & 36.
**Carex nardina* Fries—Mal., Po. 34 & 36; *var. *Hepburnii* (Boott) Kukenthal—Mal., Po. 34.
**C. maritima* Gunnerus (s. l.) (*C. incurva* Lightf.)—Mal., Po. 34.
**C. chordorrhiza* Ehrh.§—Po. 36.
C. ursina Dewey—Mat., S.
**C. bipartita* All. (incl. *C. glareosa* Wahlenb.) †—Mal., Po. 34 & 36, Ba.
C. rupestris All.—S., A., Po. 34 & 36.

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† Subsidiary forms of this species will be dealt with in my forthcoming "Botany of the Canadian Eastern Arctic.—Part I."

‡ Probably belonging to this species is the plant recorded by Hooker (1825, p. 407) as "*Eriophorum gracile*," which name was frequently applied to slender specimens of *E. angustifolium* by C. B. Clarke and others.

§ Not previously recorded from anywhere in the Canadian Arctic Archipelago.

cirpoidea Michx.—Pa., Mal., S., Po. 34 & 36, Man.
icolor All.—Po. 34 & 36.
aginata Tausch.—Po. 34 & 36.
apillaris L.—Mal., Po. 34 & 36; *var. *Porsildiana* Polunin† MS. (Meddelelser om Grønland, 1938)—Mal.
trofusca Schkuhr (*C. ustulata* Wahlenb.)—Mal., S., Po. 34 & 36, Man.
aisandra R. Br.—Pa., Mat., Mal., S., Po. 34 & 36.
ariflora (Wahlenb.) Smith—Mal., Po. 36.
olostoma Drej.†—Po. 36.
. *concolor* R. Br." ‡—Po. 34 & 36.
ex aquatilis Wahlenb.—Po. 34 & 36; var. *stans* (Drej.) Boott—H. (note only), Pa., Mat., Mal., S., Man., Po. 34 & 36, Ba.
alina Wahlenb.†—Po. 34; *var. *subspathacea* (Wormskj.) Tuckerm.†—Po. 34.
axatilis L.—Po. 34.
hysocarpa Presl. †—Po. 34 & 36.
membranacea Hook. (*C. membranopacta* Bailey)—Pa., Mat., Mal., S., Po. 34 & 36, Ba.

JUNCACEAE.

ula spadicea (All.) DC.—Mat. as "*L. parviflora*."
nivalis (Laestad.) Beurl.—Pa., Po. 34 & 36.
confusa Lindeb.—Pa., Mat., Mal., S., Po. 34 & 36.
cus arcticus Willd.—Mal., S., Po. 34, Man.
biglumis L.—Mal., S., Po. 34 & 36.
albescens (Lange) Fernald—Mal., Po. 34 & 36.
castaneus Smith—Mal., Po. 36.

LILIACEAE.

ieldia borealis (Wahlenb.) Wahlenb. (*T. palustris* of authors)—Mal., S., Po. 34 & 36.

SALICACEAE.

lix reticulata L.—Mat., S., Po. 34 & 36, Man., Ba.
herbacea L.—Mat., Po. 34 & 36, Ba.
arctica R. Br. (incl. *Salix anglorum* Cham.)—L. (not seen, but mentioned by Lyon (1824, p. 46)), Mat., Mal., S., Po. 34 & 36, Ba.
arctophila Cockerell—Po. 36.

Not previously recorded from anywhere in the Canadian Arctic ipelago.

This is *Carex rigida* Good. (1794, non Schrank, 1789), but unfortunately type-specimen of Robert Brown's *C. concolor* belongs instead to *quatilis* var. *stans*, and so yet another name will have to be found ur plant. The problem will shortly be dealt with by Mr. A. J. Wilmott e British Museum.

**S. hudsonensis* Schneider—Mal., *fide* Floderus.

? *S. cordifolia* Pursh var. *callicarpaea* (Trautv.) Fernald—S., prostrate, named and recorded by Raup (1936, p. 22), but possibly only *S. arctica*. Also ? Po. 36, atypical.

S. Richardsonii Hook.†—Mal., S., Po. 34 & 36, Man., ? Ba.

S. calcicola* Fernald & Wiegand ‡—Mal.; var. **Nicholsiana var. nov. A typo differt foliis obovatis, ad basim angustius fastigatis; stipulis persistentibus, lanceolatis vel anguste-ovatis, integris vel subintegris. Type in British Museum.—Po. 36, no. 2273.

S. alaxensis (Anderss.) Coville (*S. speciosa* Hook. et Arn.)—Mat., S., Ba., Po. 36.

BETULACEAE.

**Betula glandulosa* Michx.—Man.

POLYGONACEAE.

Oxyria digyna (L.) Hill—Mat., S., Po. 34, Man.

Polygonum viviparum L.—Mat., Mal., S., Po. 34 & 36.

CARYOPHYLLACEAE.

Silene acaulis L. var. *exscapa* (All.) DC.—Mal., S., Po. 34, Man.

Lychnis furcata (Raf.) Fernald—S., Po. 36.

L. apetala L. (*Melandryum apetalum* (L.) Fenzl)—H., Pa., Mat., O., Mal., S., Po. 34 & 36, Man., Ba.

Cerastium alpinum L. (s.l.) §—H., Pa., Mat., Mal., S., Po. 34 & 36, Man., Ba.

Stellaria longipes Goldie—Mal., S., Po. 34 & 36, Man., Ba.; f. *humilis* (Fenzl) Ostenfeld ex Grøntved (1936, p. 39) (*Stellaria longipes γ humilis* Fenzl in Ledeb. Fl. Ross. i. p. 387, 1842: *Stellaria Edwardsii* R. Br.)—Pa. (not seen, but cited by Hooker (1825, p. 390) as "*S. Edwardsii*"), A., Po. 34.

**S. crassifolia* Ehrh.—Mal., Po. 34, Man.

S. humifusa Rottb.—O., Po. 34, Ba.

Arenaria peploides L.—S., Po. 34, Man., Ba.

A. rubella (Wahlenb.) Smith (*A. propinqua* Richardson: *A. verna* L. var. *pubescens* (Cham. & Schl.) Fernald)—Pa. (not

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† Subsidiary forms of this species will be dealt with in my forthcoming "Botany of the Canadian Eastern Arctic.—Part I."

‡ Also some intermediate (*S. calcicola* × *Richardsonii*?)—Mal., Po. 34 & 36.

§ Named and published by Raup (1936, p. 23) as "var. *legitimum* Lindblom," but the material is all glandular and hence cannot be so referred. Another phase of this extremely variable species is represented by the specimens reported by Raup (1936, p. 23) as "*Cerastium cerastioides*," which must accordingly, for the time being at least, be excluded from the flora of Southampton Island.

seen, but cited by Simmons (1913, p. 81) as in Kew Herbarium), Mal., S., Po. 34.

A. Rossii (R. Br.) Fenzl †—Pa., S.‡, Ba., Po. 36.

**Arenaria uliginosa* Schleich.§—Po. 36.

**Sagina intermedia* Fenzl—Po. 36.

RANUNCULACEAE.

Ranunculus hyperboreus Rottb.—S., Po. 34.

**R. nivalis* L.—Po. 36.

R. sulphureus Soland.—Pa., S., R.

R. pygmaeus Wahlenb.—S.

R. pedatifidus Smith var. *leiocarpus* (Trautv.) Fernald—Mal., S., Po. 34, Ba.

PAPAVERACEAE.

Papaver radicatum Rottb.—L. (not seen, but mentioned by Lyon, 1824, p. 46), S., A., Po. 34 & 36, Man., Ba.

CRUCIFERAE.

Cochlearia officinalis L. (s. l.) (incl. *C. groenlandica* L.)—F., Mat., Mal., S., Po. 34 & 36, Ba.

Eutrema Edwardsii R. Br.—Pa. (not seen, but cited by Hooker, 1825, p. 388), Mal., S., Po. 34 & 36, Ba.

Cardamine bellidifolia L.—S., Po. 36.

C. pratensis L. var. *angustifolia* Hook.—E. (note only), Mal., S., Po. 34 & 36, Ba.

Lesquerella arctica (Richardson) Watson—F., O., S., Po. 36.

Draba alpina L.—F., Mal., S., Po. 34 & 36, Man., Ba.; var. *nana* Hook. emend. Fernald—Bo., S., Po. 36, Ba; var. **inflatisiliqua** var. nov. A forma typica differt siliquis glabris nec ovatis nec oblongis nec complanatis sed *fusiformibus*, apice basique acutis, orbiculatis vel ellipticis in sectionibus transversis.—Mal., S., Po. 34 (type in Gray Herbarium, Harvard University, co-type in National Herbarium of Canada, Ottawa) & 36.

**D. subcapitata* Simmons—Po. 36.

D. fladnizensis Wulf. (incl. *D. lactea* Adams)—Mat., S., Po. 34 & 36, Ba; *f. glabrata (Lindblom) n. comb.|| (*D. Wahlenbergii* Hartm. *γ glabrata* Lindblom in Stockholm Akad. Handl. p. 46, 1839).—S.¶, Po. 34 & 36.

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† Subsidiary forms of this species will be dealt with in my forthcoming "Botany of the Canadian Eastern Arctic.—Part I."

‡ Not recorded by Raup, but the specimen named and published (1936, p. 23) by this authority as "*A. uliginosa*" belongs to *A. Rossii*.

§ Previous reports from the Arctic Archipelago (including Raup's from Southampton Island) belong to other species, but I have also found it represented in my collections in the British Museum made in 1931 on Akpatok Island.

|| Not previously recorded from anywhere in the Canadian Arctic Archipelago.

¶ Not recorded by Raup, but present on a sheet including *D. alpina* var. *nana* and *Ranunculus pygmaeus* all labelled "*Cochlearia groenlandica*."

? *D. crassifolia* Graham—Po. 36, a doubtful scrap gathered in a hurry in semi-darkness.
D. nivalis Liljebl.—Mal., S., Po. 34 & 36, Ba.
D. glabella Pursh—Mat. †, Mal., S., Man., Po. 34 & 36, Ba.
D. cinerea Adams—E. †, Mal., S., Po. 34.
**Arabis arenicola* (Richardson) Gelert—Mal.
**A. alpina* L.—Ba.
Braya purpurascens (R. Br.) Bunge ‡—Mal., S., Po. 34 & 36, Ba.
Parrya arctica R. Br.—Pa.

SAXIFRAGACEAE.

**Saxifraga rivularis* L.—Po. 34, Ba.
S. cernua L.—Mat., O., Mal., S., Po. 34 & 36, Man.; f. **latibracteata** (Fernald & Weatherby) n. comb. (*S. cernua* var. *latibracteata* Fernald & Weatherby in Rhodora, xxxiii. p. 234, 1931)—S., Ba., Po. 36; *f. *bulbillosa* Engler et Irmscher §—Po. 36.
S. caespitosa L. (*S. sileniflora* of authors, incl. Raup, 1936, p. 26).—Mal., S., Po. 34 & 36, Ba.; *f. *uniflora* (R. Br.) Engler—Po. 34, Ba.
**S. stellaris* L. var. *comosa* Retz.—Po. 36.
S. nivalis L.—F., Mal., S., Po. 34 & 36, Ba.; *var. *labradorica* Fernald §—Mal., Po. 34; *var. *tenuis* Wahlenb.—S. part, Po. 36.
S. aizoides L.—H., E., Pa., Mat., Mal., S., Man., Ba., Po. 36.
S. tricuspidata Rottb.—H., Pa., O., Mal., S., Po. 34 & 36, Man., Ba.; *f. **subintegrifolia** (Abrom.) n. comb. (*S. tricuspidata* var. *subintegrifolia* Abromeit in Bibl. Bot. xlii. p. 36, 1899)—Man.
S. Hirculus L.‡—H., Pa., Mat., Mal., S., Po. 34 & 36, Ba.
S. oppositifolia L.—H. (note only, saying "abundant everywhere that we landed," *i. e.*, including Southampton I.), Mat., Mal., S., Po. 34 & 36, Ba.
Chrysosplenium alternifolium L. var. *tetrandrum* Lund (*C. tetrandrum* (Lund) Fries)—E. (note only), Mal., S., Po. 34 & 36, Ba.

ROSACEAE.

**Rubus Chamaemorus* L.—Ba., Walrus I. only.
**Potentilla emarginata* Pursh—Po. 36.

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† Raup (1936, p. 25) gives *Draba glabella* as "Previously known from Southampton Island," but the early record should be transferred to *D. cinerea*, which is represented by a good specimen in the British Museum collected by Edwards during Parry's Second Voyage.

‡ Subsidiary forms of this species will be dealt with in my forthcoming "Botany of the Canadian Eastern Arctic.—Part I."

§ Not previously recorded from anywhere in the Canadian Arctic Archipelago.

P. nivea L.—Po. 34 & 36, Man.; var. *subquinata* Lange—S., var. *pallidior* Sw.—Po. 34.

P. Vahliana Lehm.—H. (note only), Mat., Mal., S., Po. 34 & 36.

**P. pulchella* R. Br.—Ba., Walrus I. only.

Dryas integrifolia M. Vahl—Pa., Mat., O., Mal., S., Po. 34 & 36, Man., Ba.; *f. intermedia (Nathorst) n. comb. (*Dryas octopetala* f. *intermedia* Nathorst in Öfv. K. Sv. Vet. Akad. Förh. xli. p. 24, 1884): *D. octopetala* L. subsp. *integrifolia* (M. Vahl) Hartz f. *intermedia* (Nathorst) Hartz).—Mal., Po. 34 & 36.

LEGUMINOSAE.

Astragalus alpinus L.—Mal., S., Po. 34 & 36.

Oxytropis hudsonica (Greene) Fernald (*O. arctica* of authors)—H., Mal., S., A., Po. 34.

O. Maydelliana Trautv. (*O. campestris* of authors)—H., Pa., Mat., Mal., S., Po. 34 & 36, Man.

O. arctobia Bunge—Mal., S., Po. 34 & 36, Man.

EMPETRACEAE.

Empetrum nigrum L. var. *hermaphroditum* (Lange) Sørensen—Mat., Mal., S., Po. 34 & 36, Ba.

ONAGRACEAE.

Epilobium latifolium L.—Mal., S., Po. 34 & 36, Man.

E. davuricum Fischer var. arcticum (Samuelss.) n. comb. (*Epilobium arcticum* Samuelsson in Bot. Not. p. 260, 1922): *E. alpinum* of authors)—Mal., S., Po. 34 & 36.

HIPPURIDACEAE.

Hippuris vulgaris L.—S., Po. 34, Ba.

PYROLACEAE.

Pyrola grandiflora Radius (*P. rotundifolia* L. var. *pumila* Hook.)—S., Man., Po. 36.

ERICACEAE.

Ledum palustre L. var. *decumbens* Ait.—S., Po. 34 & 36, Man.

Rhodendron lapponicum L.—S., Po. 34 & 36, Man.

Cassiope tetragona (L.) D. Don—H., Pa., Mat., Mal., S., Po. 34 & 36, Man., Ba.

Arctostaphylos rubra (Rehder & Wilson) Fernald—Mal., S., Po. 34 & 36, Man., Ba. Much of the material approaches *A. alpina* (L.) Spreng. in its small and more or less ciliate leaves.

Vaccinium uliginosum L. var. *alpinum* Bigel.—Mat., Mal., S., Po. 34 & 36, Man.

V. Vitis-Idaea L. var. *minus* Loddiges—S., Ba., Po. 36.

PLUMBAGINACEAE.

Armeria labradorica Wallr. (*Statice labradorica* (Wallr.) Hubbard & Blake) f. *glabriscapa* (Blake) Mal.—S., Man., Po. 36.

BORAGINACEAE.

Mertensia maritima (L.) S. F. Gray var. *tenella* Fries—Mat., S.

SCROPHULARIACEAE.

Pedicularis lapponica L.—S.
P. sudetica Willd.—Pa., Mal., S., Po. 34 & 36, Ba.
P. lanata Cham. & Schlecht.—Mat., Mal., S., Po. 34 & 36, Man., Ba., R.
P. hirsuta L.—S., Po. 34 & 36, Ba.
P. flammea L.—Mal., S., Ba.
P. capitata Adams—Pa. (not seen, but cited by Hooker (1825, p. 402) as "*P. Nelsonii*"), Mat., Mal., S., Po. 34 & 36, Ba.

CAMPANULACEAE.

Campanula uniflora L.—H. (note only), Mat., S., Man.

COMPOSITAE.

Erigeron eriocephalus J. Vahl—S., Man., approaching *E. unalaschkensis.*
**E. unalaschkensis* (DC.) Vierh. (*E. uniflorus* of authors)—Pa., Po. 36.
**Antennaria angustata* Greene—Po. 36.
**A. labradorica* Nutt.—A., north side of White Island, Frozen Strait. This specimen is in the U.S. National Herbarium and is, according to my notes, "not quite typical, but probably correct."
Matricaria inodora L. var. *nana* (Hook.) Torr. & Gray (*M. grandiflora* (Hook.) Britton)—Mal., S. Po. 34, Man., Ba.
Chrysanthemum integrifolium Richardson—H. (note only), Pa., Mat., Mal., S., Po. 34 & 36.
Senecio palustris (L.) Hook. (incl. some material which is referable to var. *congestus* (R. Br.) Hook.)—O., S., Man., Ba.
Taraxacum lacerum Greene—H. (note only, but presumably referring to this species), S., A.
**Crepis nana* Richardson—A., north side of White Island, Frozen Strait.

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THE BRITISH ASSOCIATION DELEGATION IN INDIA.

BY A. H. REGINALD BULLER, D.SC., F.R.S.

THE British Association for the Advancement of Science sent a Delegation of about one hundred persons to the Silver Jubilee Meeting of the Indian Science Congress Association. The meeting was held at Calcutta, January 3–9, and was presided over by Sir James Jeans. The Delegation included the following botanists:—Prof. V. H. Blackman, Prof. A. H. R. Buller, Dr. C. D. Darlington, Prof. & Mrs. F. E. Fritsch, Prof. R. R. Gates, Prof. J. W. Harrison, Sir Arthur Hill, and Dr. A. B. Rendle.

On the way out Dr. Rendle was not well, but at Port Said he and I took a long walk through the city and enjoyed seeing its varied sights, including its ornamental trees and shrubs. That was Dr. Rendle's last botanical excursion, for, unfortunately, as the voyage proceeded, he grew worse, and at Bombay he was obliged to leave the party and return home. Shortly after his arrival in England, as readers of this Journal must have learned with great regret, he passed away.

The Delegation sailed from London on board the P. and O. steamer 'Cathay' on November 26 and landed at Bombay on December 16. A pre-congress and a post-congress tour, in special trains, had been arranged by the Indian Association.

The pre-congress tour included:—Bombay (University of Bombay, Parsee Towers of Silence, Hindu burning ghat); Hyderabad (Osmania University, where the instruction is given in Urdu, and the neighbouring Golconda Fort and tombs); Aurangabad (with visits to Daulatabad Fort and the rock caves of Ellora and Ajanta); Sanchi (great Buddhist Stupa); Agra (Taj Mahal, Agra Fort, Agra College); New Delhi (Viceroy's House, Imperial Institute of Agricultural Research); Delhi (Fort, Pearl Mosque, Kutb); Dehra Dun (Forest Research Institute); Mussoorie (ridge with view of snowy ranges of Himalayas); Benares (Benares Hindu University, the Ganges, Sarnath where Buddha first preached); Darjeeling (Botanical Garden, view of Kinchinjunga, Tiger Hill); and Calcutta.

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